**Fig. 1A**

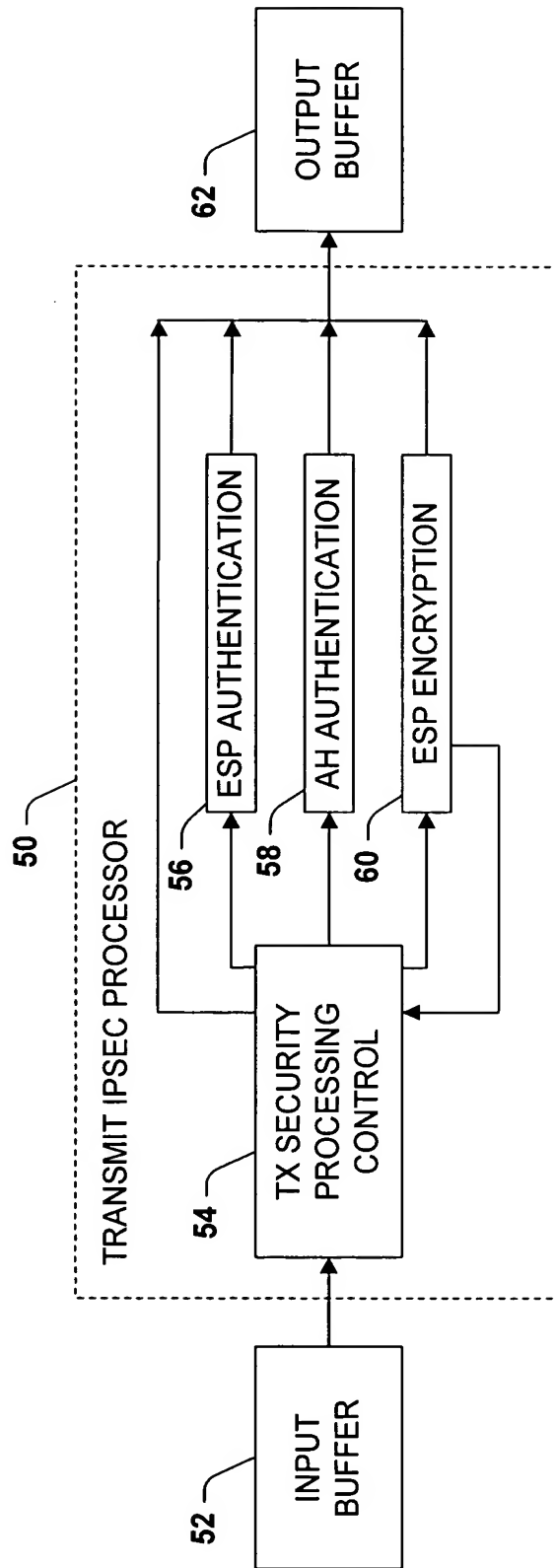
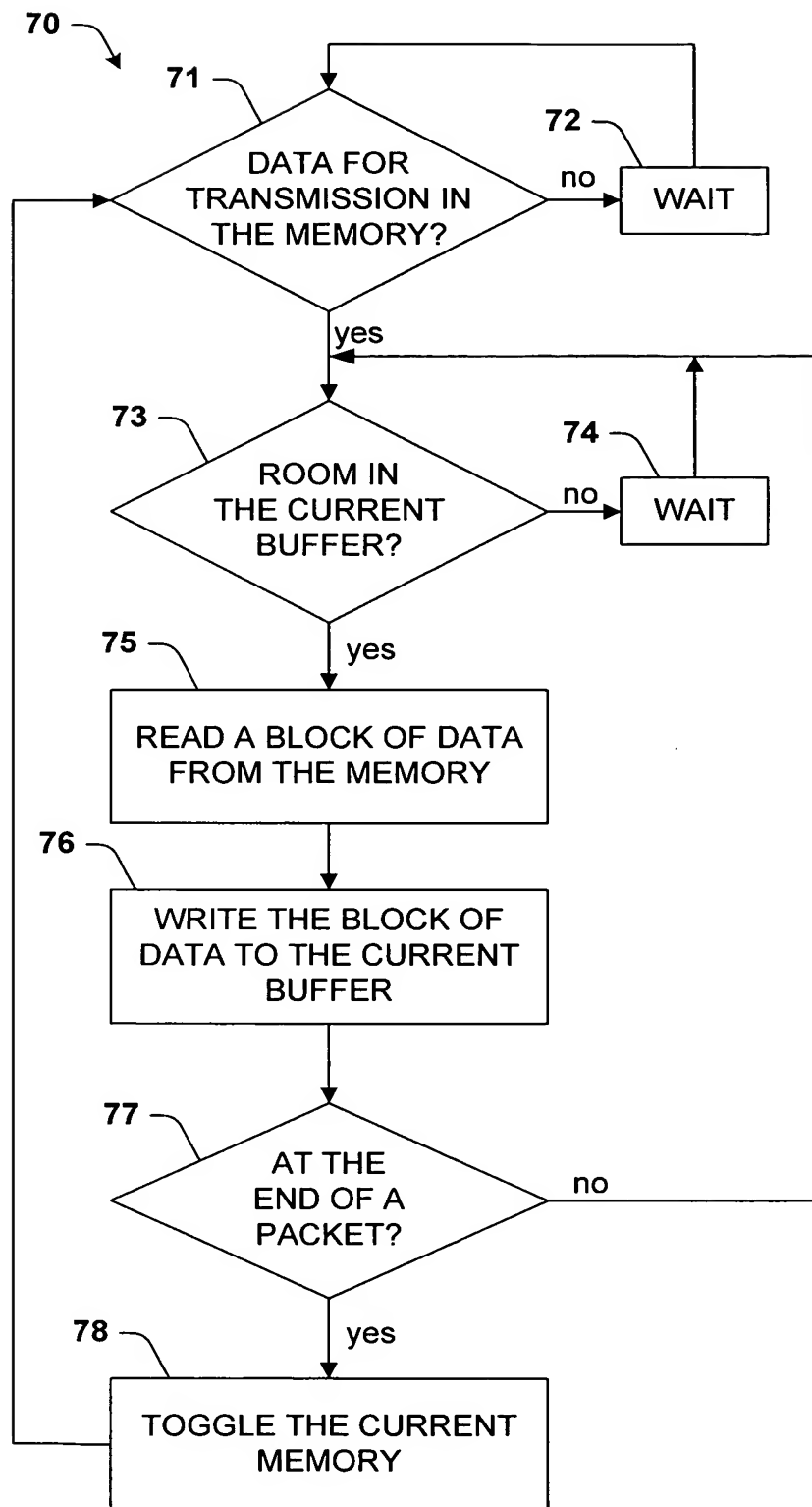
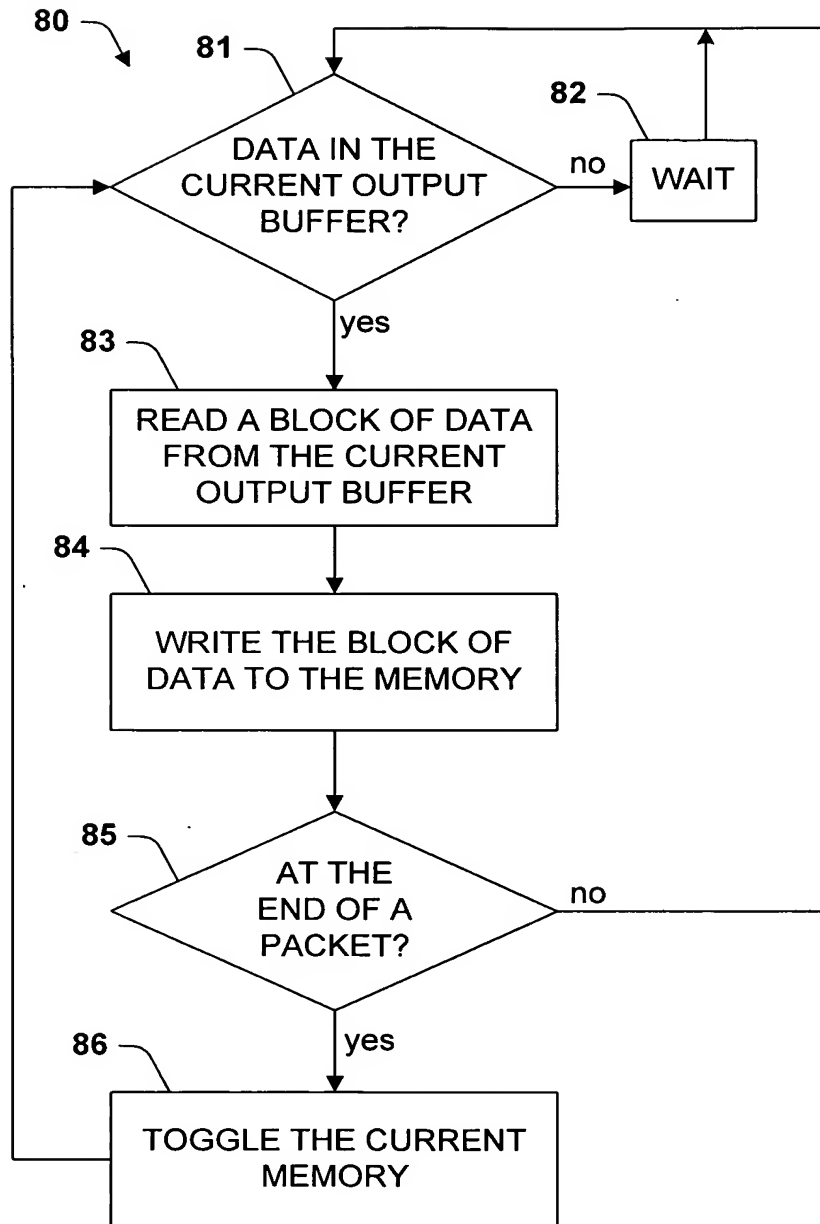


Fig. 1B

**Fig. 1C**

**Fig. 1D**

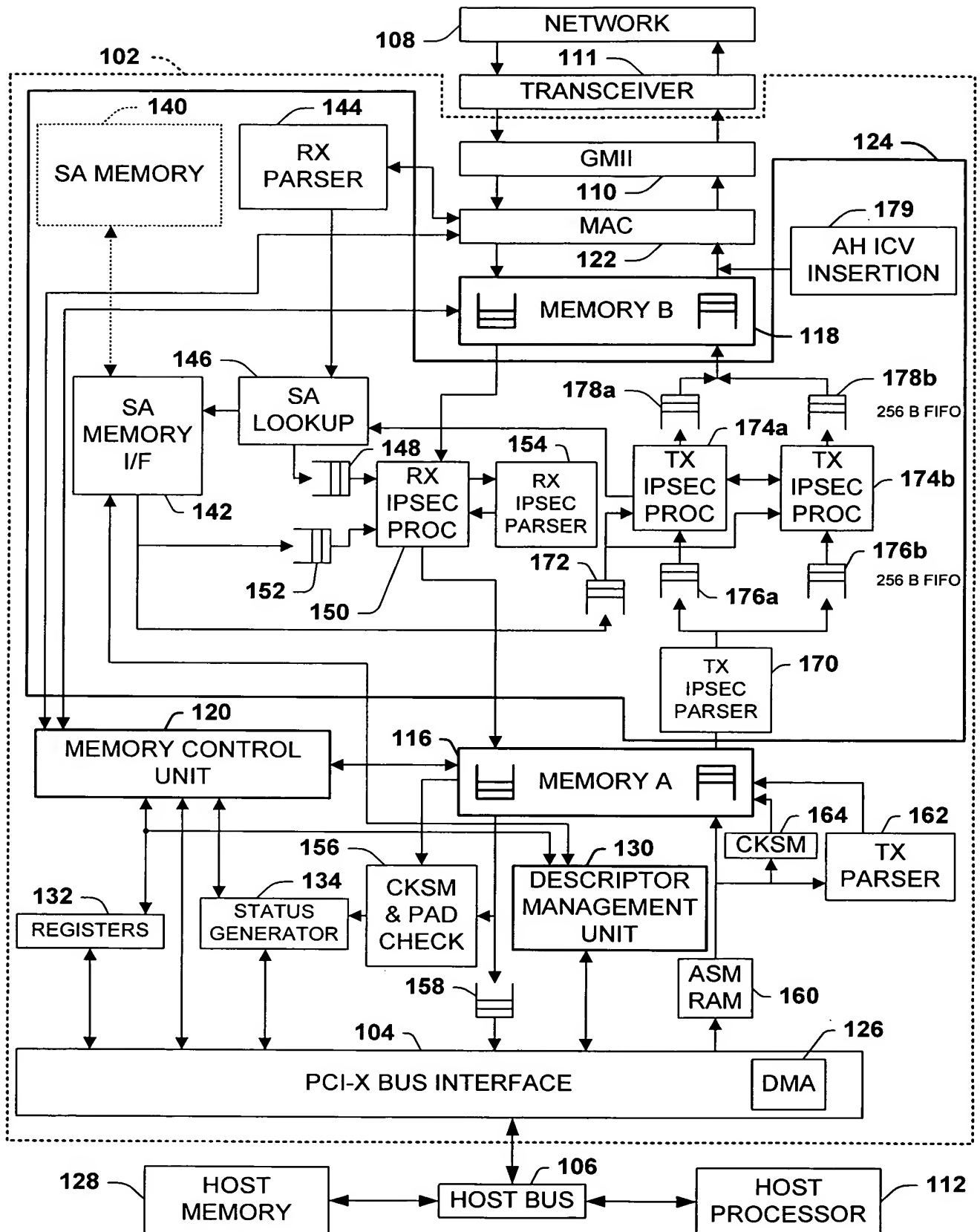
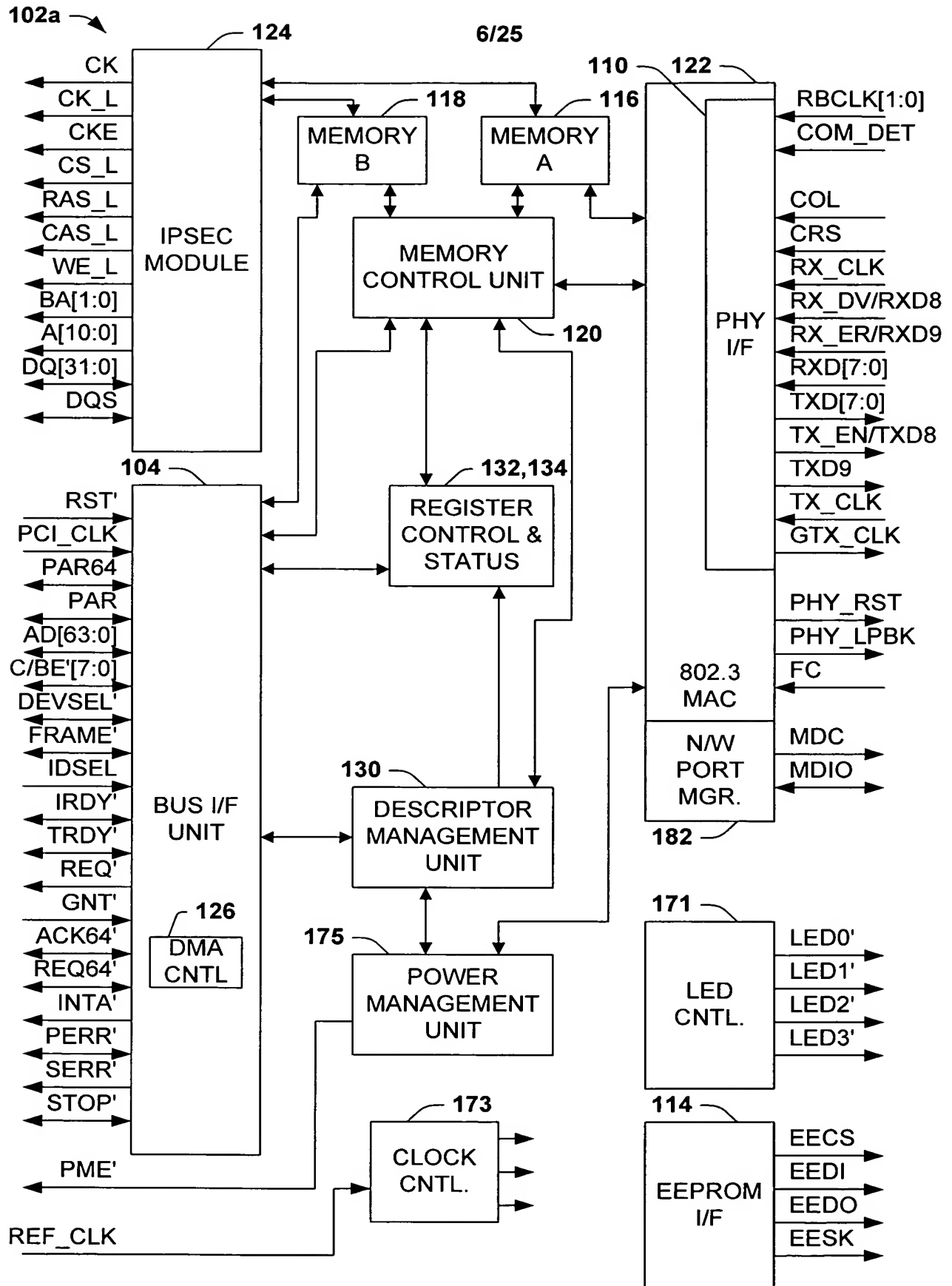
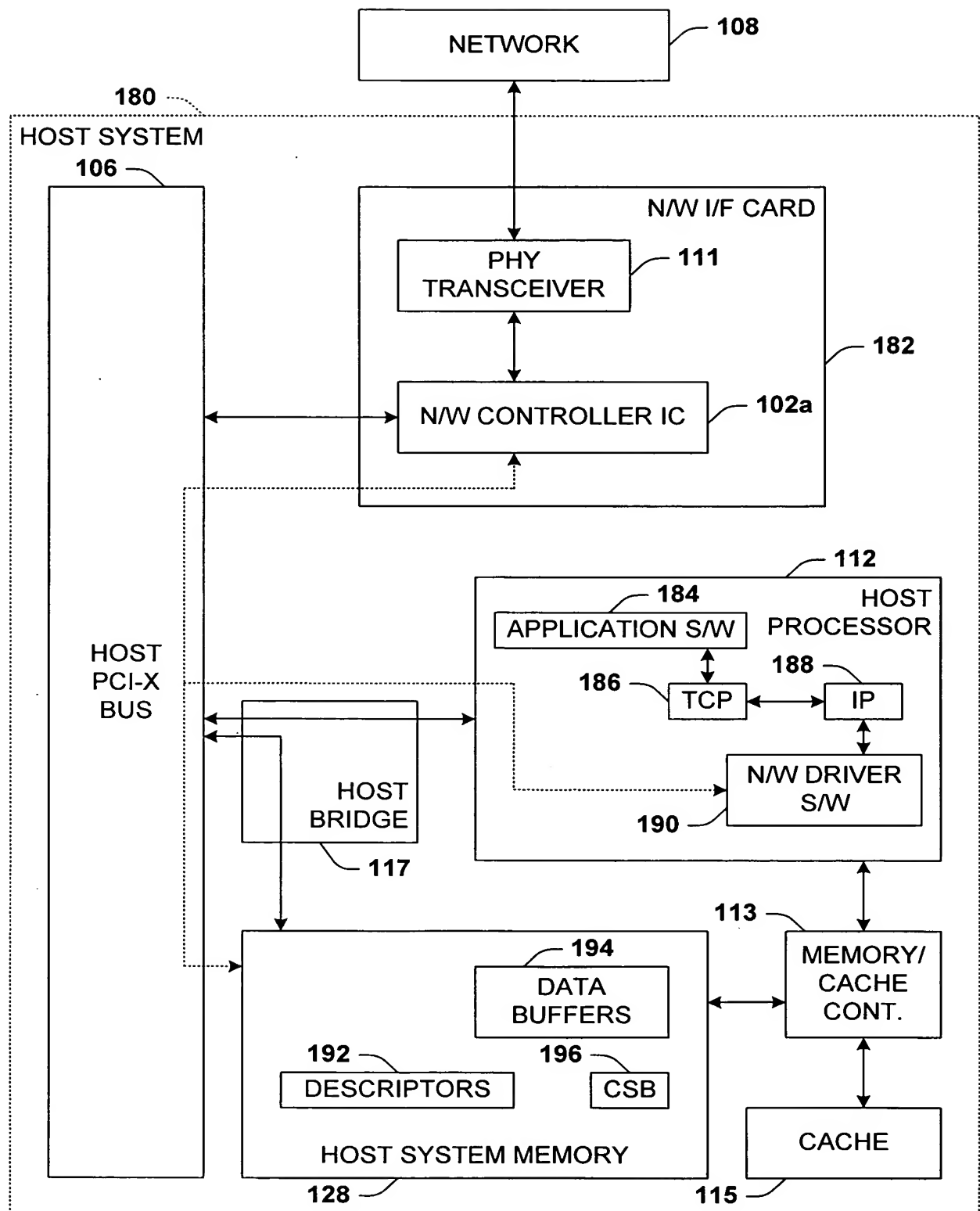
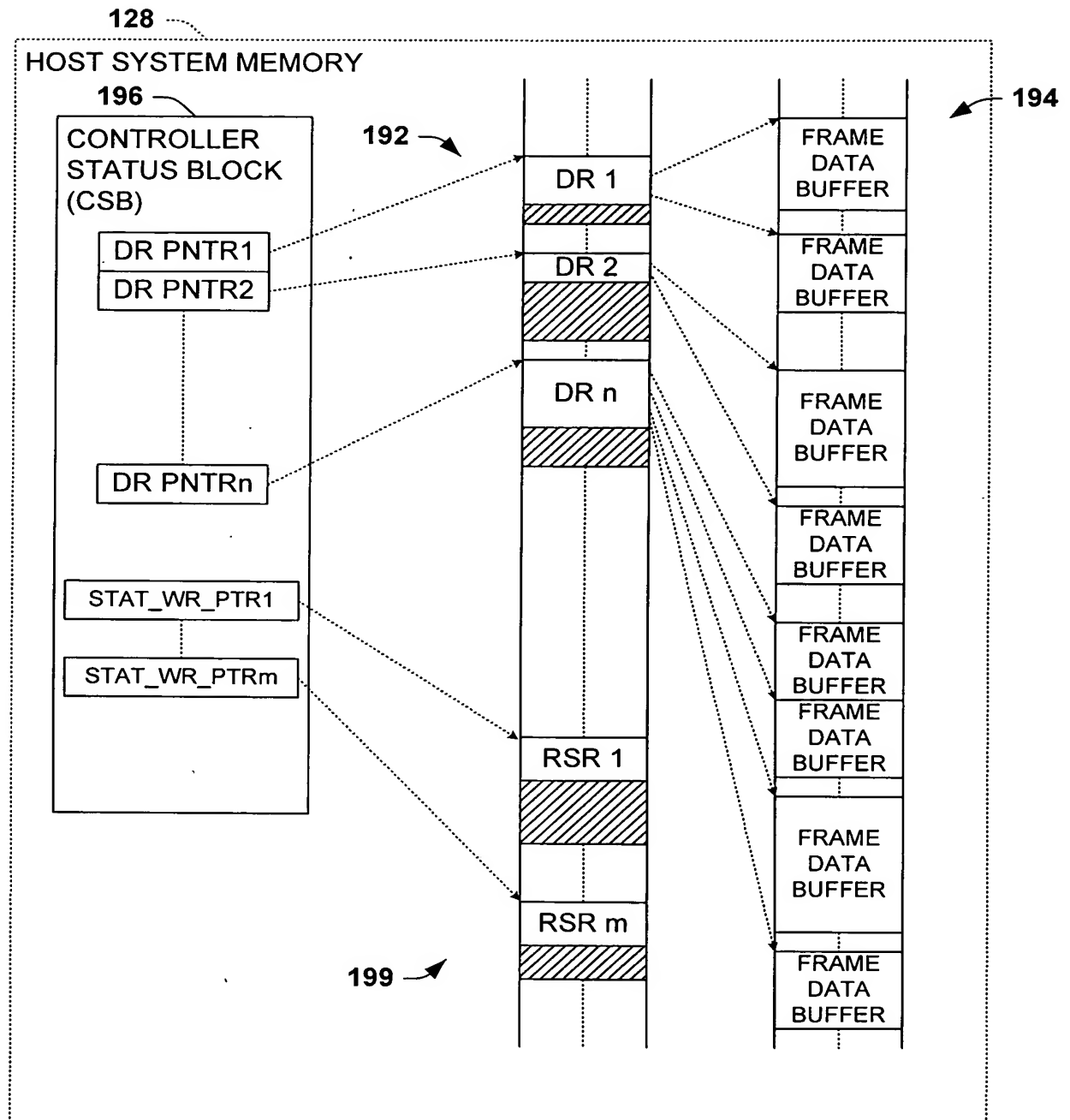


Fig. 2



**Fig. 3**

**Fig. 4**

**Fig. 5A**



196

CSB

TX_RD_PTR0
TX_RD_PTR1
TX_RD_PTR2
TX_RD_PTR3
STAT_WR_PTR0
STAT_WR_PTR1
STAT_WR_PTR2
STAT_WR_PTR3
INT0_COPY

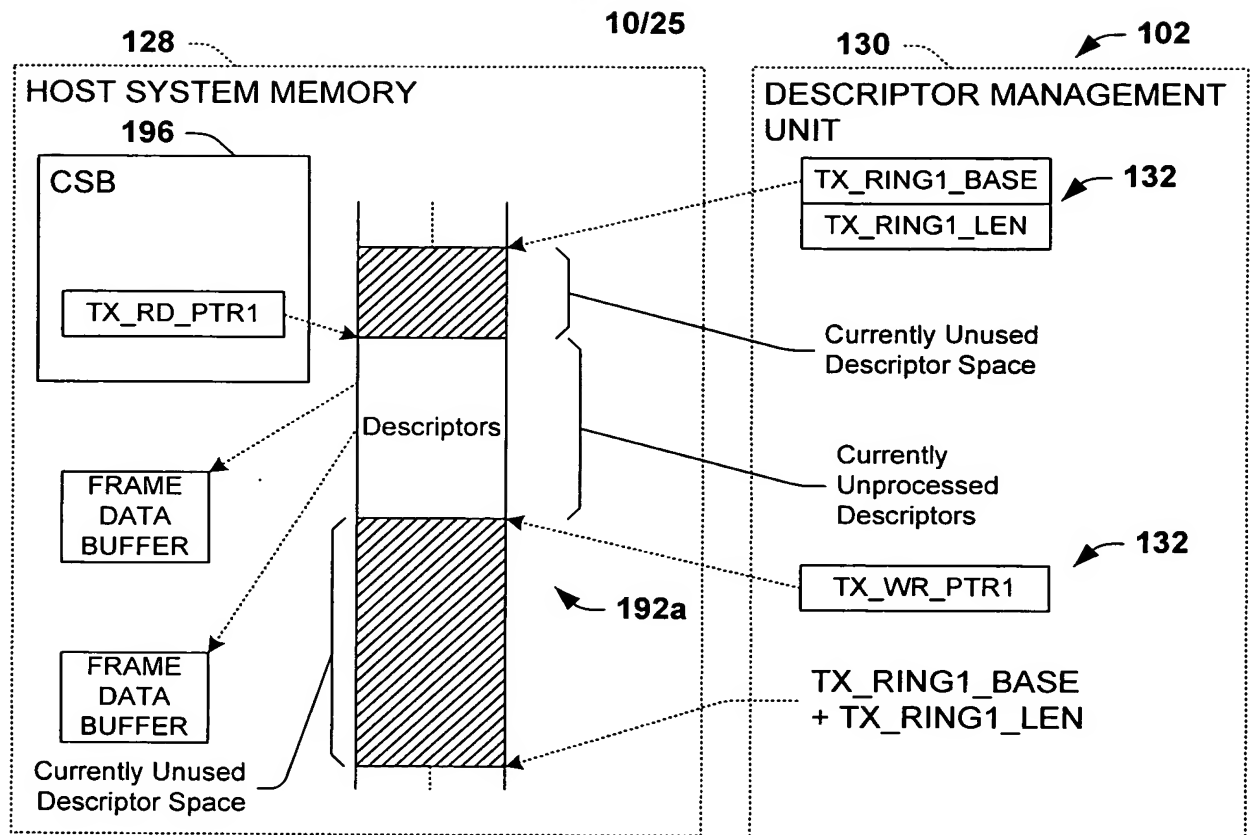
**Fig. 5B**

132

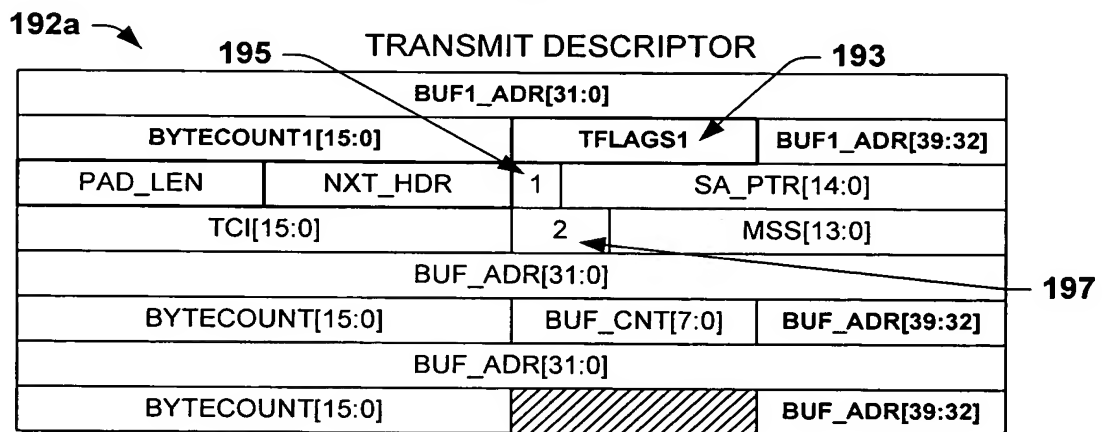
REGISTERS

RX_RING[3:0]_BASE
TX_RING[3:0]_BASE
RX_RING[3:0]_LEN
TX_RING[3:0]_LEN
TX_WR_PTR[3:0]
RX_WR_PTR[3:0]
STAT_RING[3:0]_BASE
STAT_RING[3:0]_LEN
RX_BUF_LEN
CSB_ADDR

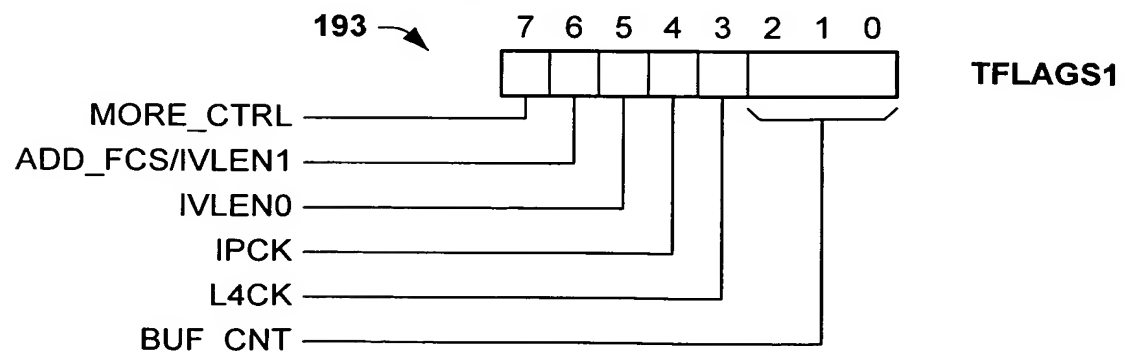
**Fig. 5C**



**Fig. 5D**



**Fig. 5E**



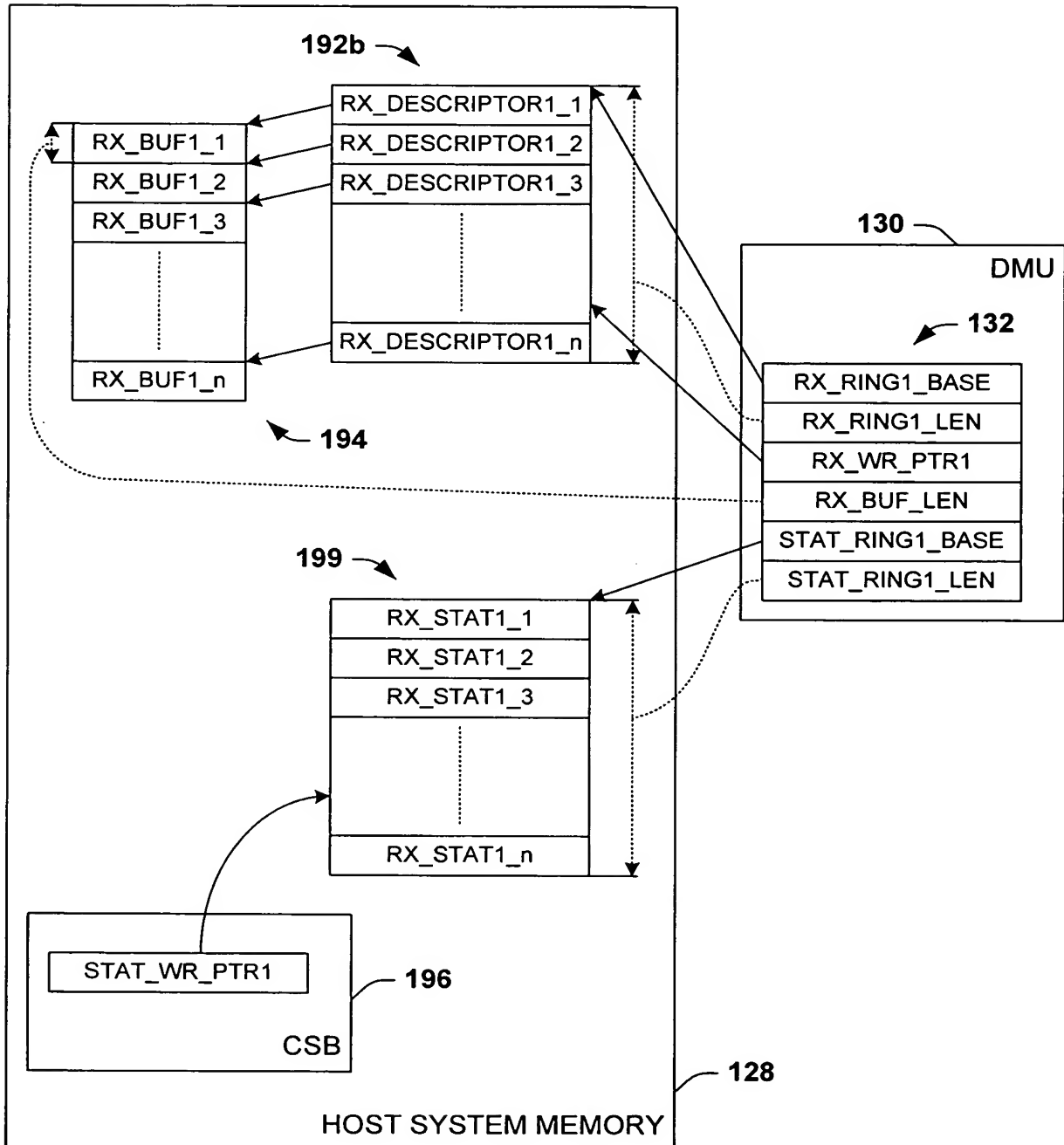
**Fig. 5F**

192b →

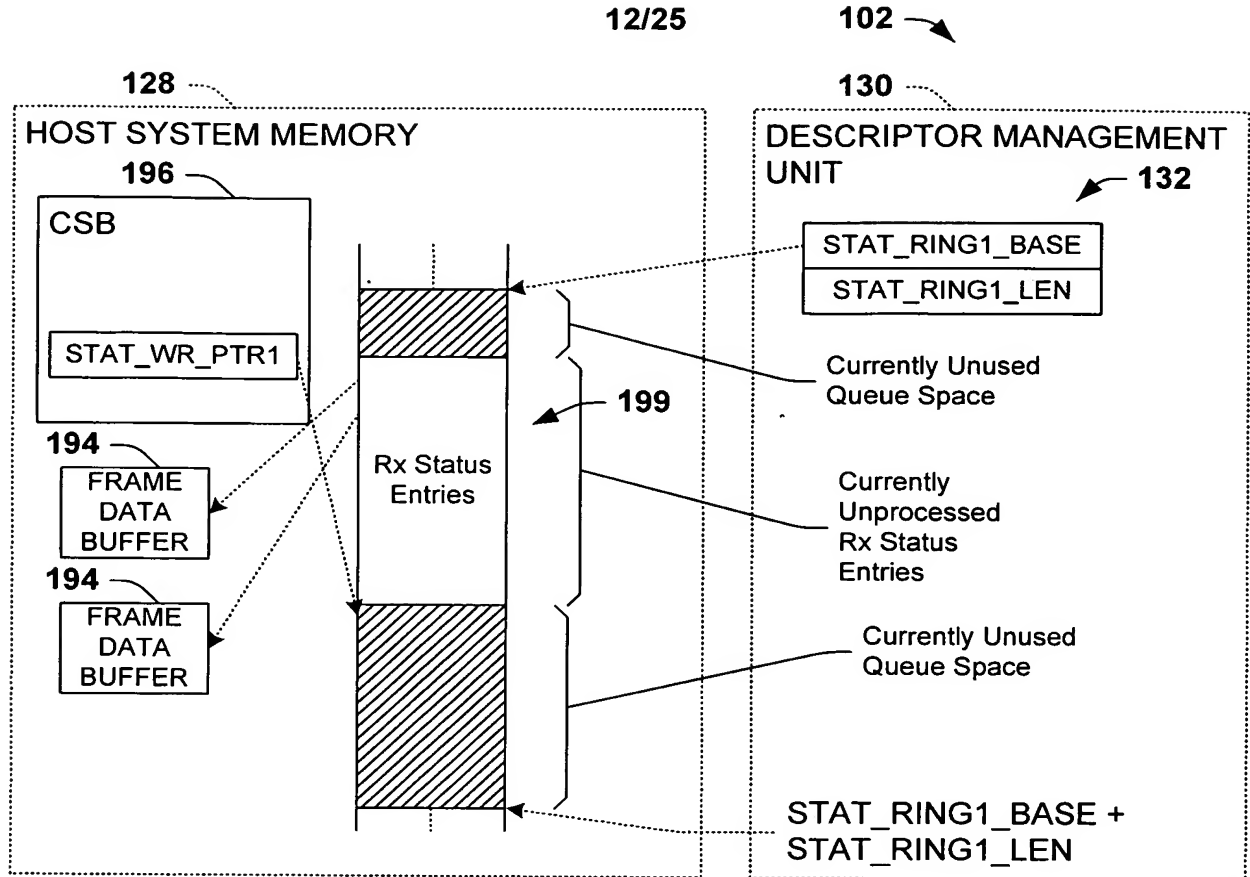
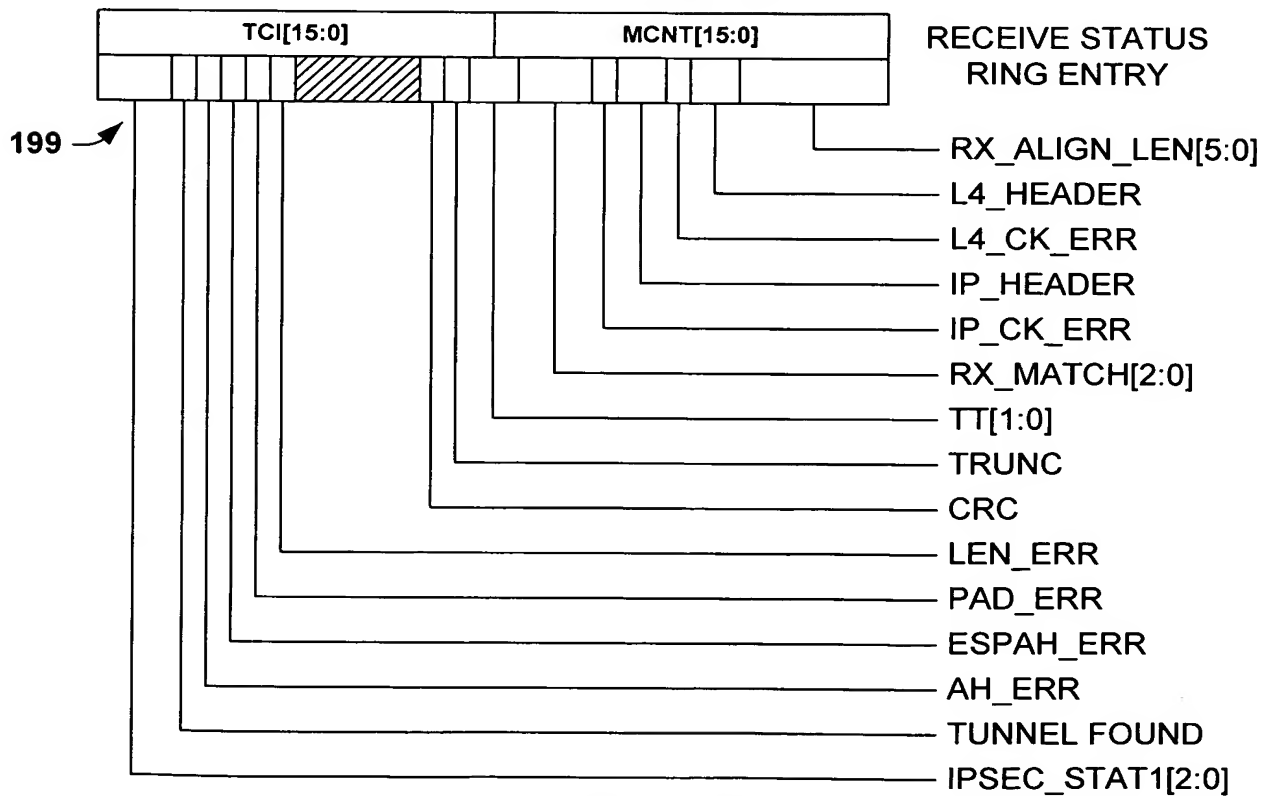
RECEIVE DESCRIPTOR

BUF_ADR[31:0]		
RES	BUF_MULT[7:0]	BUF_ADR[39:32]

**Fig. 5G**



**Fig. 5H**

**Fig. 5I****Fig. 5J**

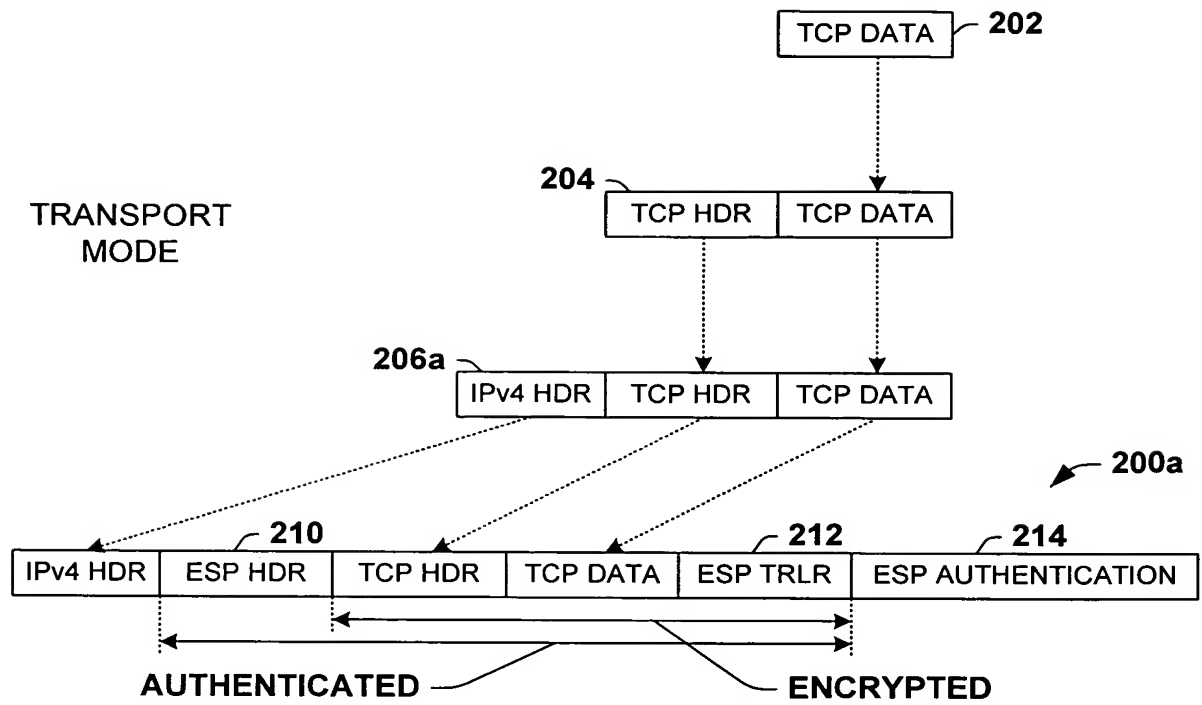


Fig. 6A

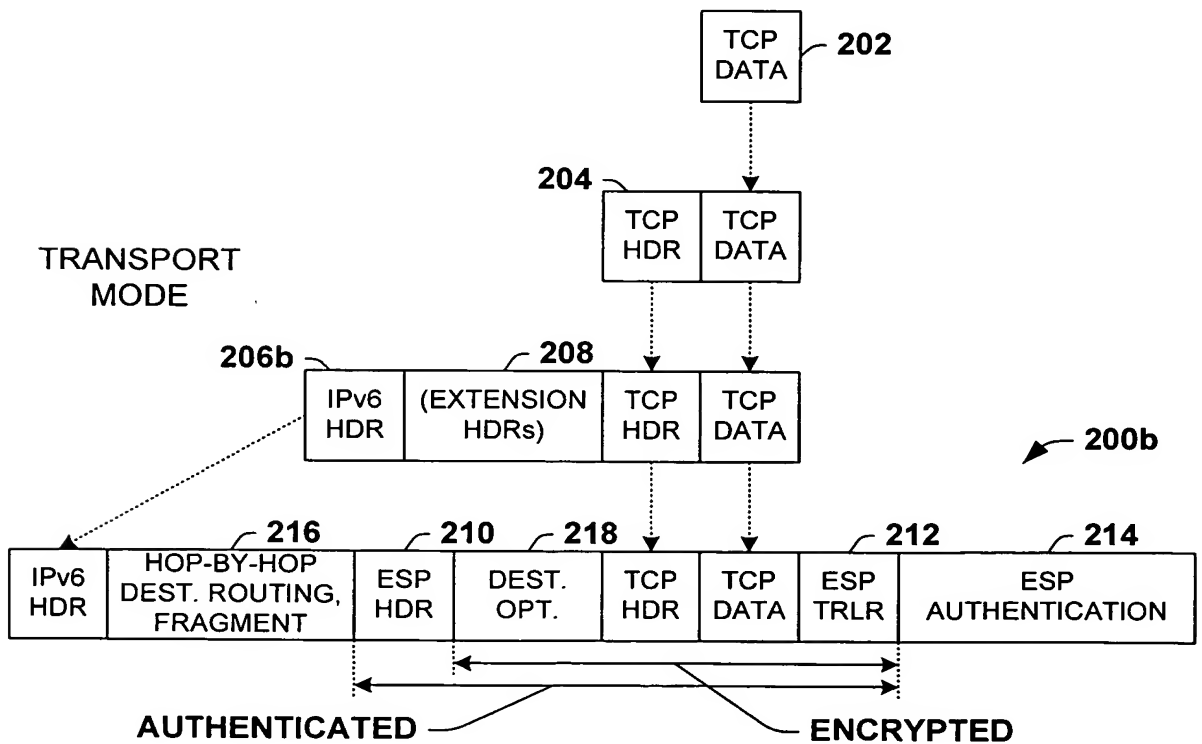


Fig. 6B

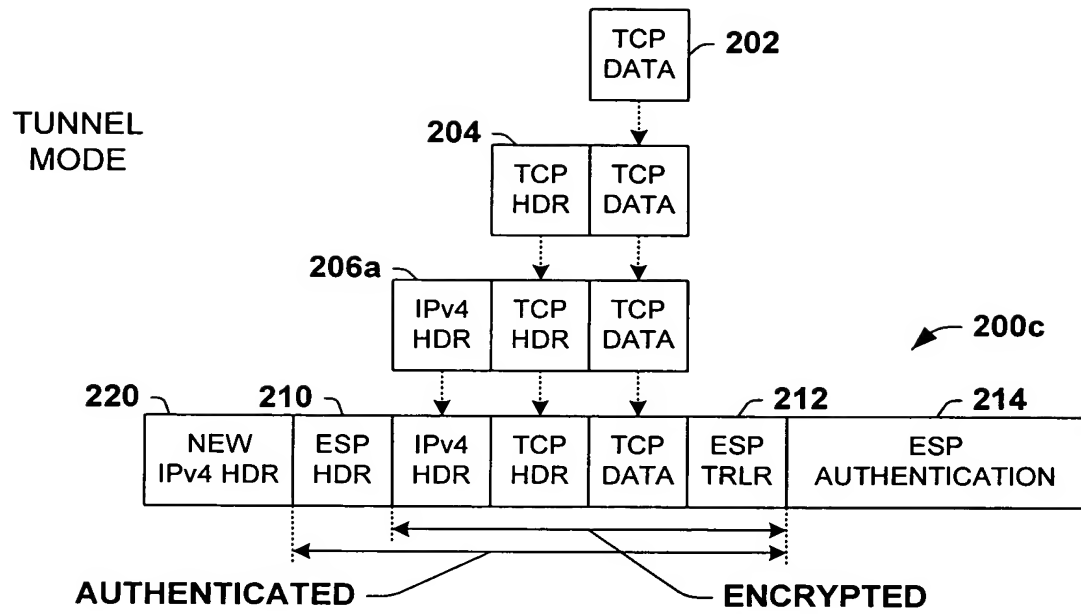


Fig. 6C

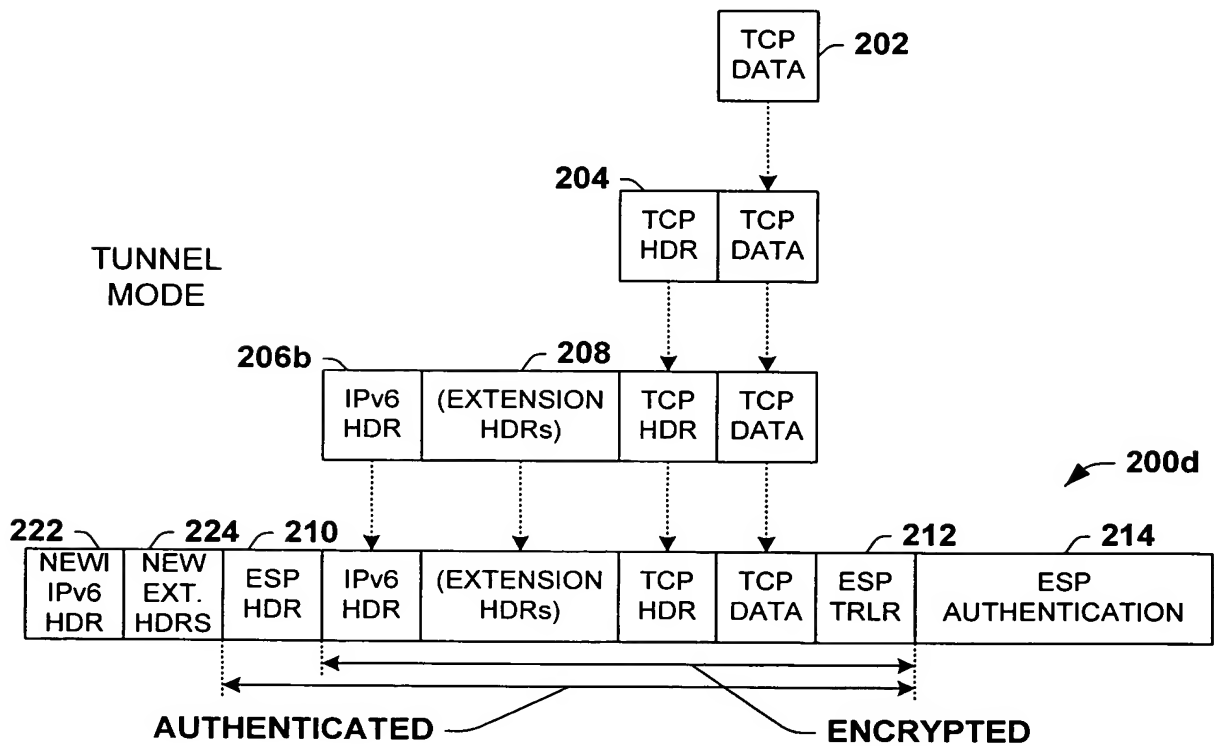
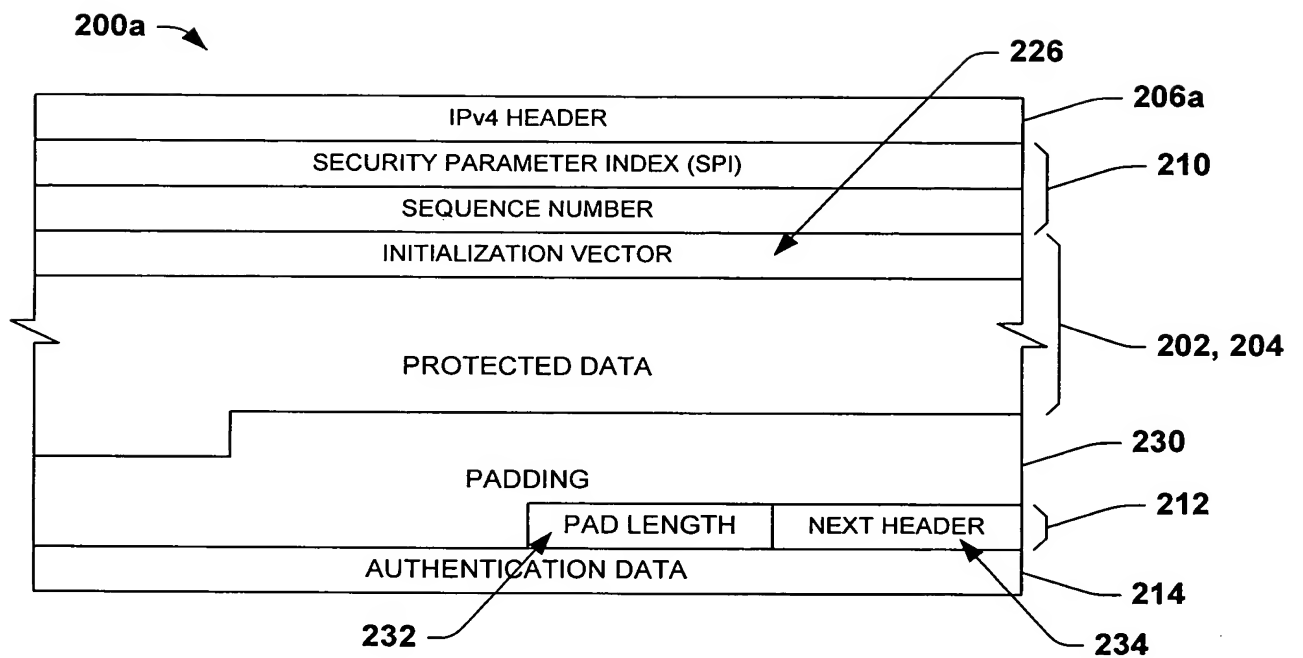


Fig. 6D

**Fig. 6E**

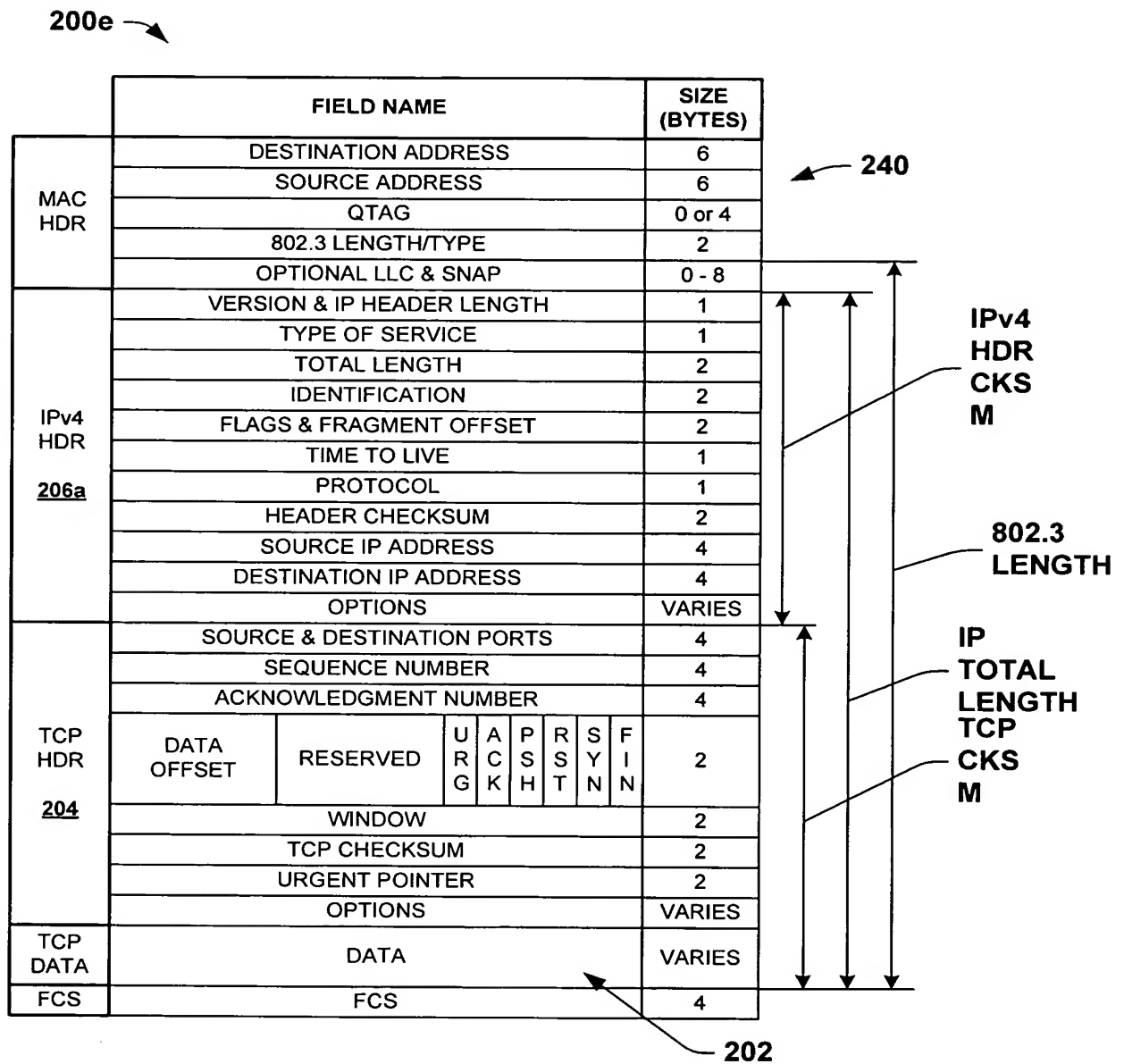


Fig. 7A



200f

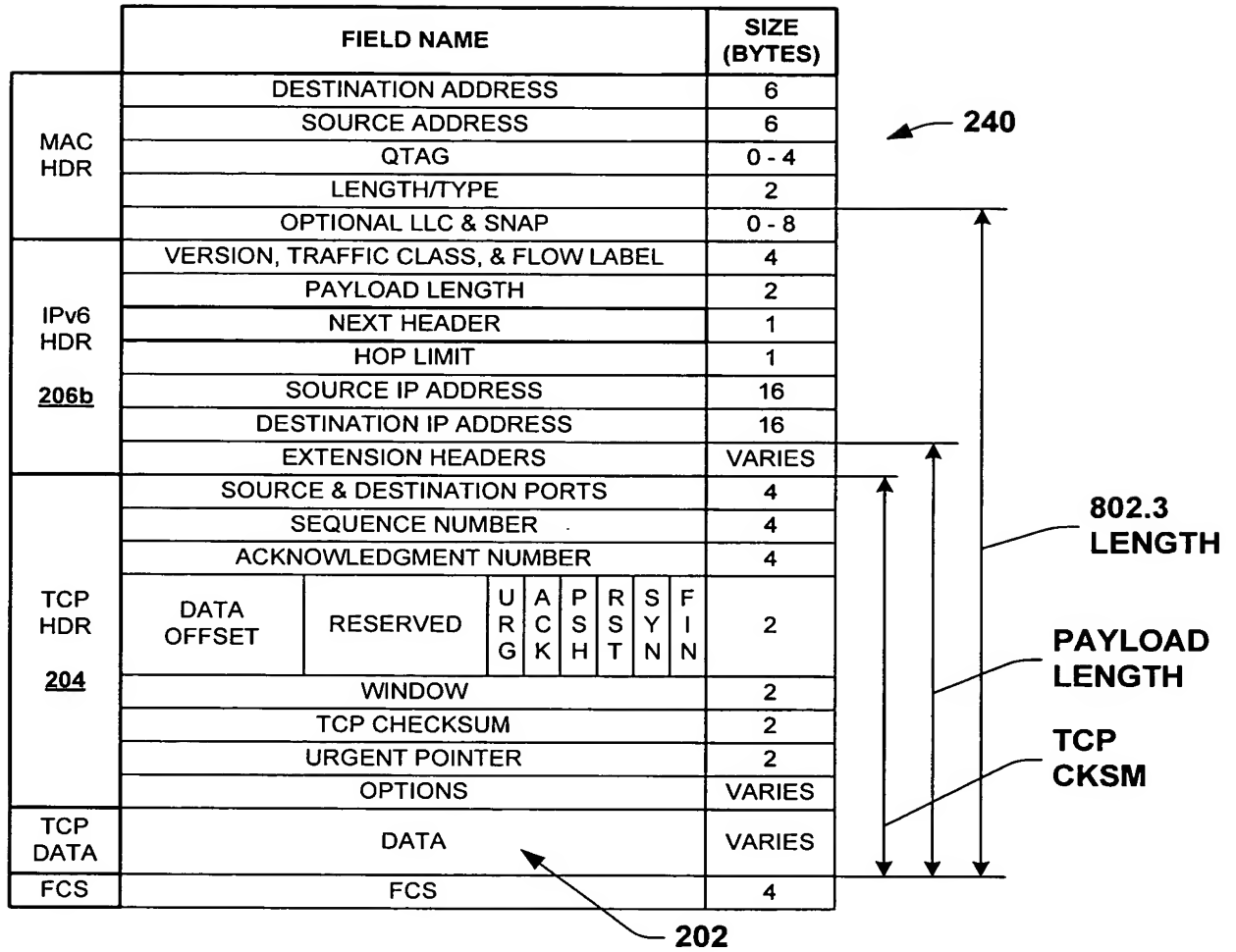


Fig. 7B

250 →

FIELD NAME	Created by Host	Modified by ESP	Encrypted	Covered by ESP Authentication	Added by Controller
Preamble					x
Start of Frame Delimiter					x
MAC Header	x				
IP Header	x				
ESP Header	x			x	
Payload Data	x	x	x	x	
Padding	x	x	x	x	
Pad Length	x	x	x	x	
Next Header	x	x	x	x	
Authentication Data	x	x			
Frame Check Sequence					x

**Fig. 8A**

252 →

FIELD NAME	Created by Host	Modified by AH Module	Covered by AH Authentication	Added by Controller
Preamble				x
Start of Frame Delimiter				x
MAC Header	x			
IP Header	x		x	
AH Header	x	x	x	
Other Headers	x		x	
Payload Data	x		x	
Frame Check Sequence				X

**Fig. 8B**

254 →

PHCKSM FOR IPv4	
32-BIT IP SOURCE ADDRESS	
32-BIT IP DESTINATION ADDRESS	
ZERO	PROTOCOL
TCP TOTAL LENGTH	

**Fig. 8C**

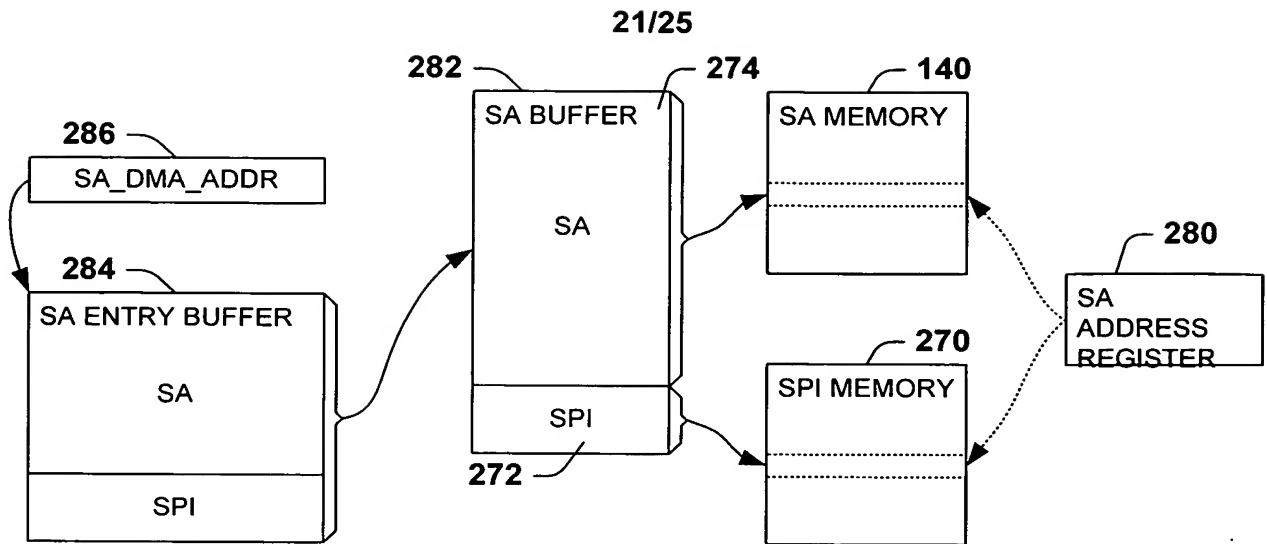
256 →

PHCKSM FOR IPv6	
128-BIT IP SOURCE ADDRESS	
128-BIT IP DESTINATION ADDRESS	
16-BIT TCP TOTAL LENGTH	
ZERO	PROTOCOL

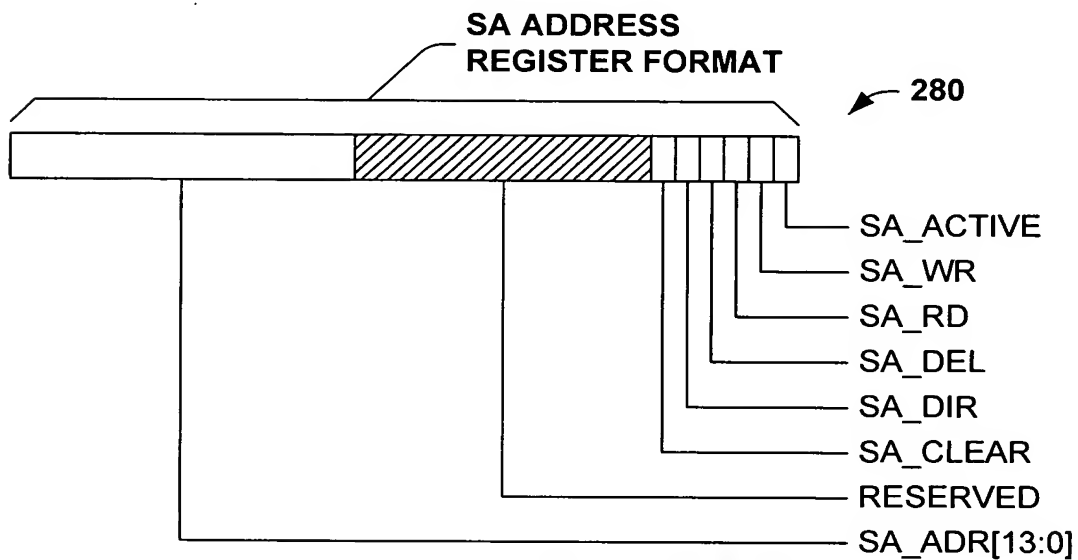
**Fig. 8D**

**102a** 

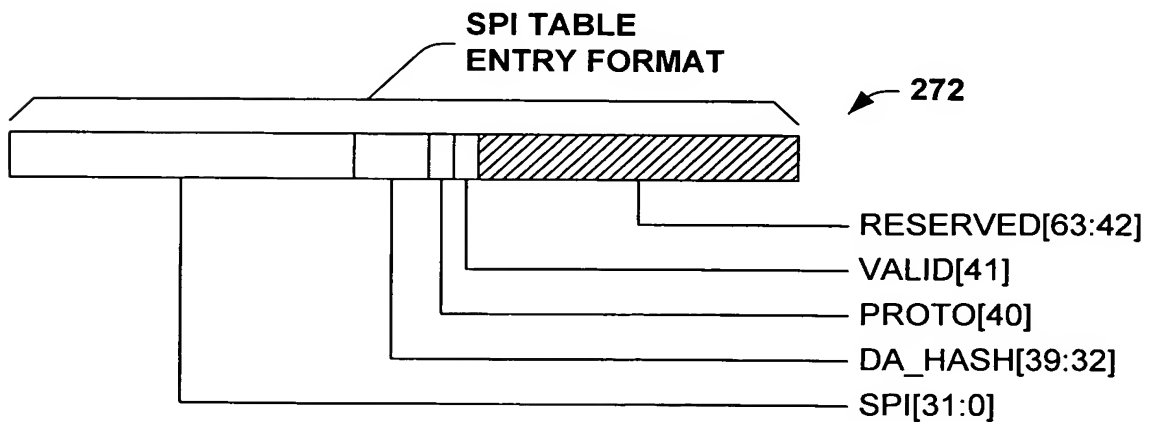




**Fig. 11A**



**Fig. 11B**



**Fig. 11C**

140 →

## SA MEMORY ENTRY

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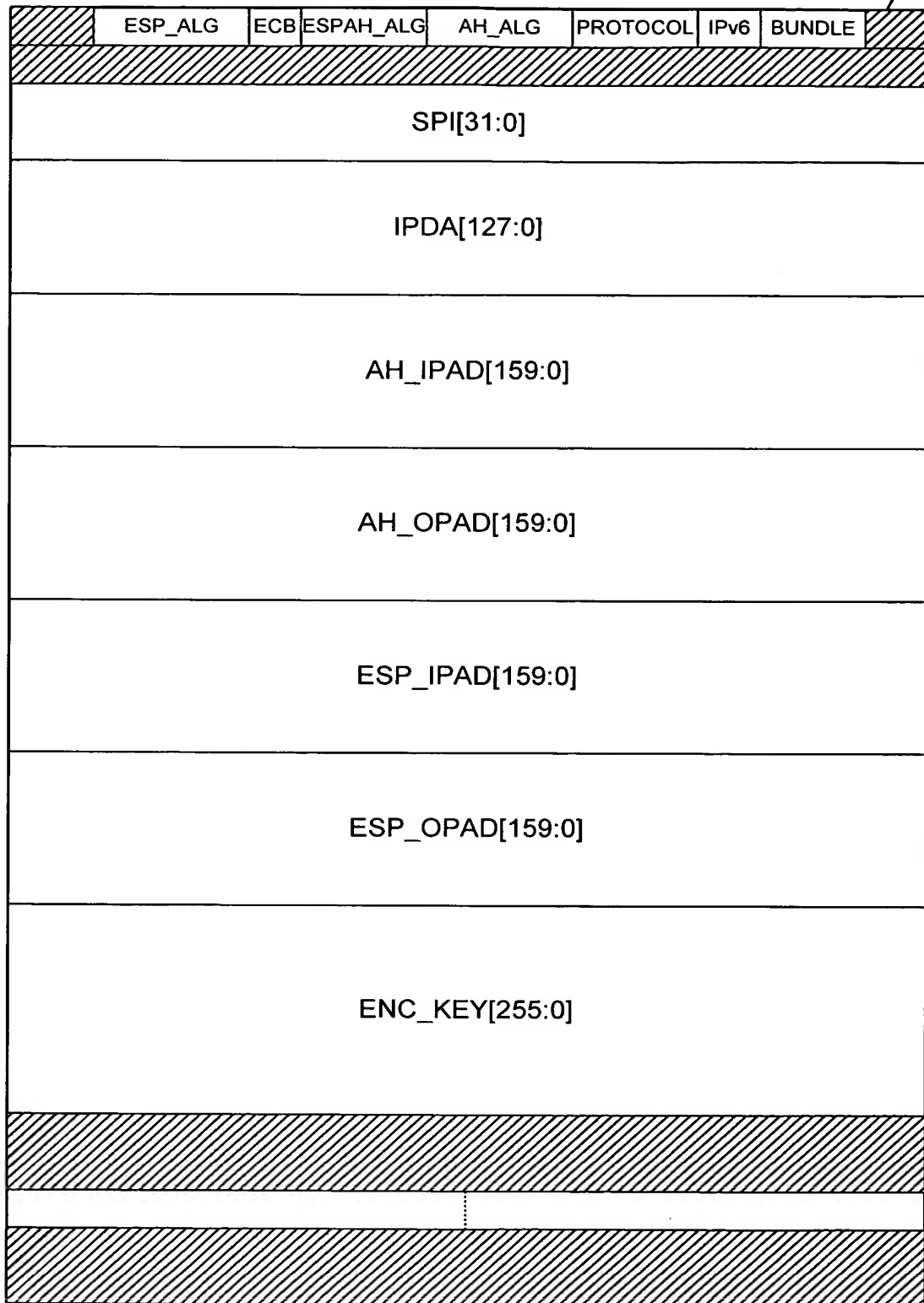
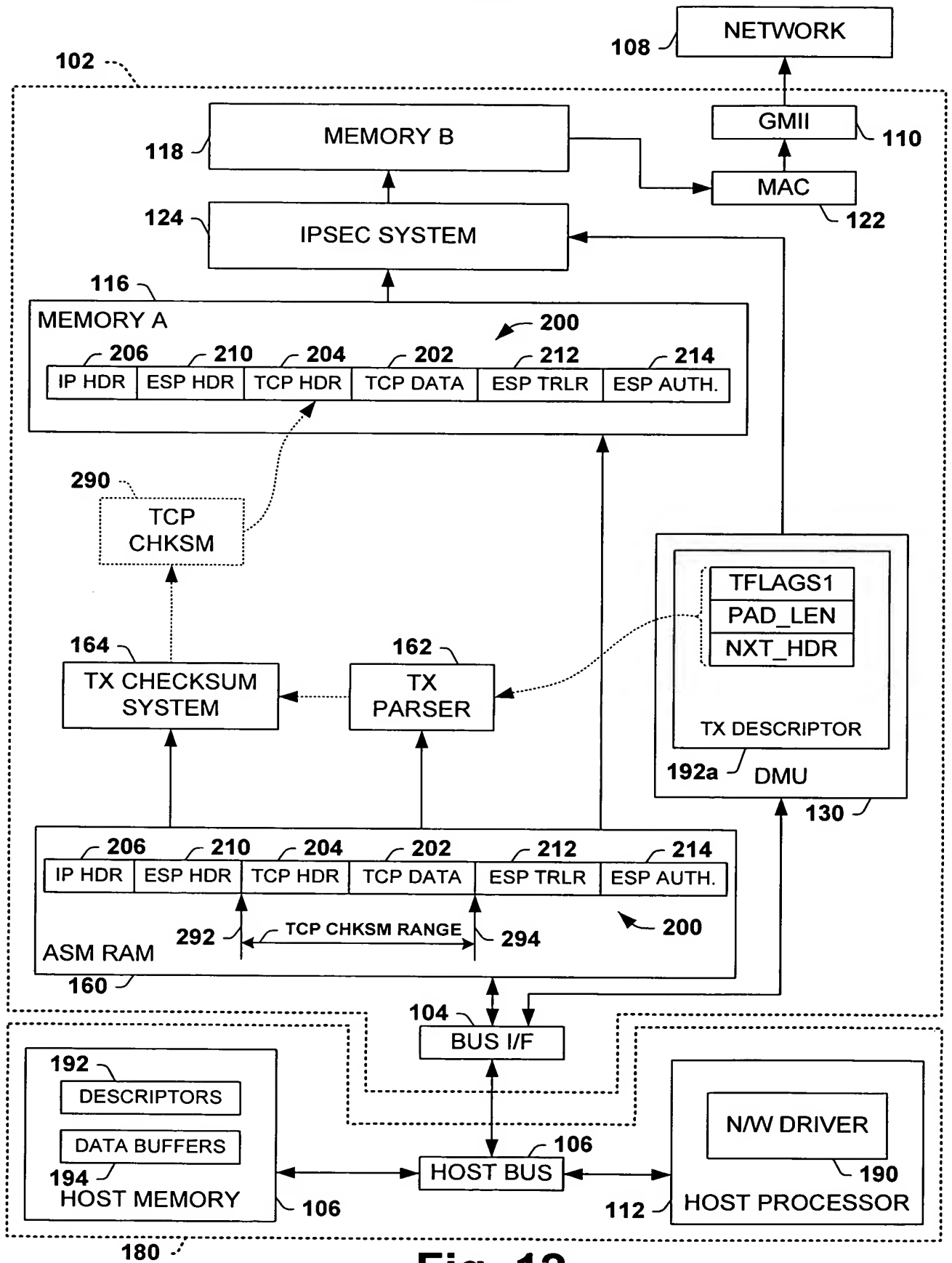


Fig. 11D



**Fig. 12**

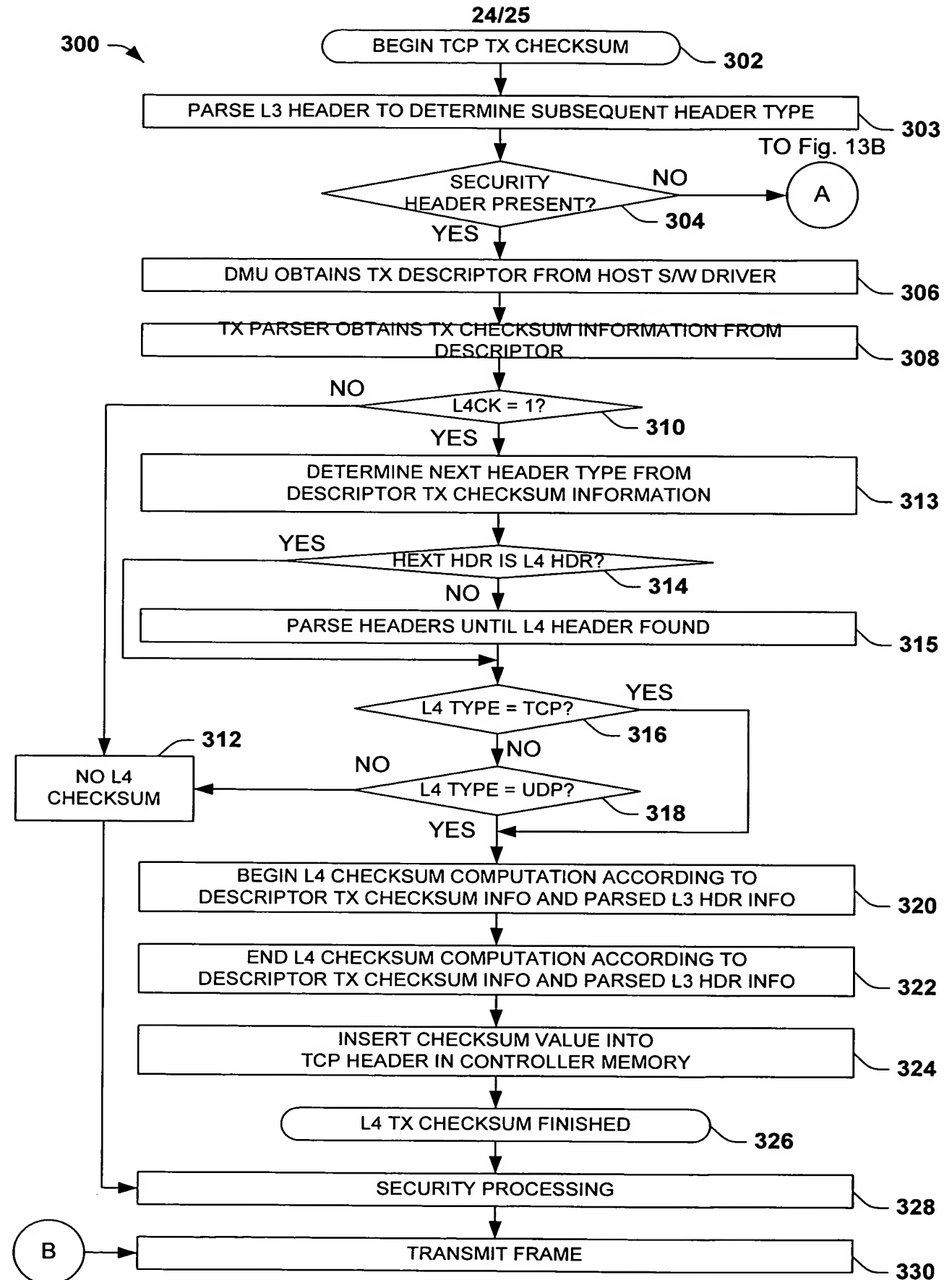
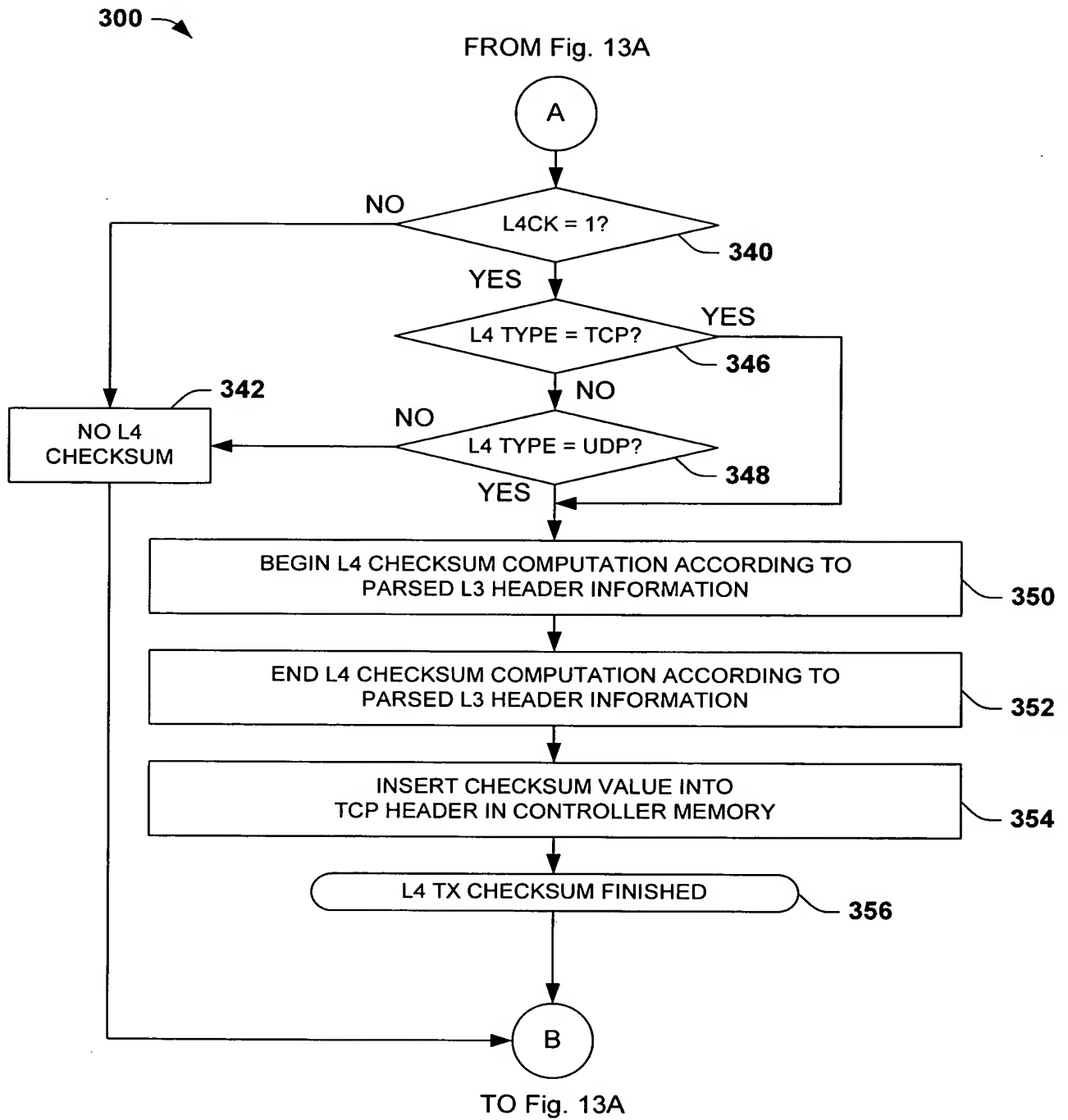


Fig. 13A



**Fig. 13B**